RCA

E09303
E09304

COLOR TV OWNER'S MANUAL

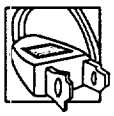
IMPORTANT INFORMATION i
TABLE OF CONTENTS 1
GETTING STARTED 2-3
CONTROLLING YOUR TV 4-6
OPERATING FEATURES 7-12
CONNECTING YOUR TV 13-20
ACCESSORIES 21-22
CARING FOR YOUR TV 23
TROUBLE CHECKS 24-25
LIMITED WARRANTY ..... Back Cover

Downloaded from www.Manualslib.com manuals search engine

Important Information

WARNING: To prevent fire or shock hazard, do not expose this TV to rain or moisture.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.	**WARNING** RISK OF ELECTRIC SHOCK DO NOT OPEN TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	This symbol indicates important instructions accompanying the product.



To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqú au fond.

CAUTIONS:

Do not defeat the safety feature of this plug. The wide blade fits into the wall socket only one way. If you need an extension cord, make sure it matches the plug of the TV.

Operate TV only on 120 volts, 60 Hz AC power (normal house power).

For safety reasons, make sure any equipment or accessories connected to this product bears the UL listing mark or if purchased and used in Canada, the

CSA certification mark. If in doubt, contact qualified service personnel.

FCC Regulations state unauthorized changes or modifications to

Note to Cable TV Installer:

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Product Registration

Please fill out the product registration card and return it immediately. Returning this card allows us to contact you if needed.

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. The numbers are located on the back of the TV.

MODEL NO. _____

SERIAL NO. _____

PURCHASE DATE: _____

PURCHASED FROM: _____

_____

_____

Downloaded from www.Manualslib.com manuals search engine

Introduction

Thank you for choosing RCA

Your television is designed for long life and superior operation. Despite its sophistication, your new TV is amazingly simple to operate because it has so many automatic features.

Table of Contents

Getting Started
First-Time Operation 2-3

Controlling Your TV
Front Panel and Headphone Jack 4
On-Screen Displays 5
Remote Operation 6

Operating Features
FM Radio Operation 7
VIDEO Menu 8
SETUP Menu 9
Sleep Timer Operation 10
Alarm Timer Operation 11
Autoprogramming Channel Memory 12
Editing Channel Memory 12

Connecting Your TV
Antenna/Cable Information 13
Connecting Supplied Antenna to Top of TV 13
Home Antenna Connections 14
Cable-TV Connections 15
Cable-TV Operation 16
Mounting the TV 17-19
Using DC Power Cord 20

Accessories
Accessories 21
Order Form 21-22

Caring for Your TV
Cleaning & Care 23
Contrast Enhancement Filter 23

Trouble Checks 24-25

Limited Warranty ..... Back Cover

Downloaded from www.Manualslib.com manuals search engine

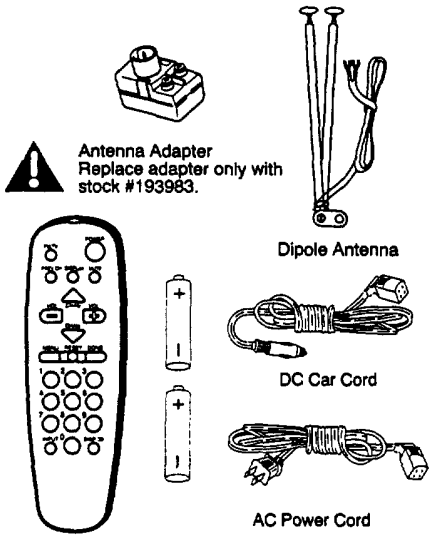
Getting Started

First-Time Operation

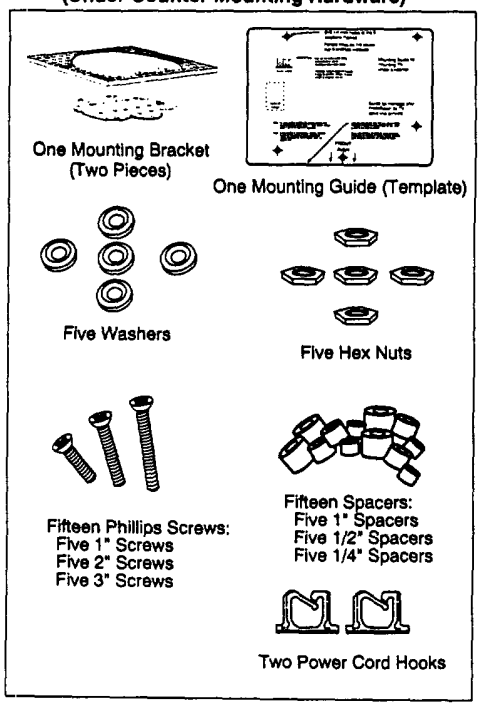
The steps below will help you get your TV connected and working quickly. Page numbers are also listed for more details.

1. Unpack TV and accessories.

Shown below are the accessories that came packed with your TV.

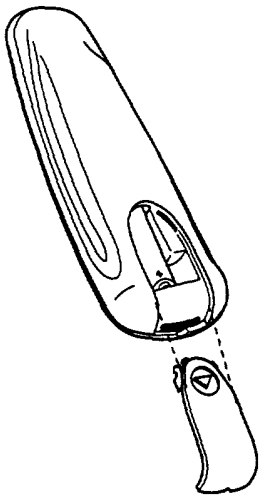


(Under Counter Mounting Hardware)



2. Place batteries in remote.

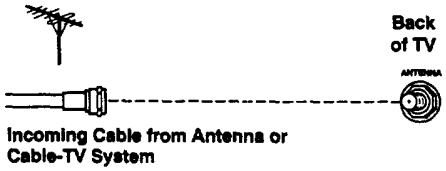
1. Turn the remote control face down.
2. Press down on the ridged area of the battery cover and slide it off.



3. Place two "AAA" batteries as shown matching the + and – end of each battery in the compartment.
4. Replace the cover.

3. Connect antenna or cable-TV system.

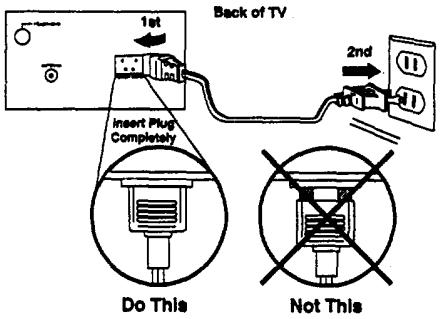
Most antenna or cable-TV systems can be connected as shown here.



- Details for connecting a home antenna to your TV are on *page 14*.
- Details for connecting a cable-TV system to your TV are on *pages 15-16*.

4. Attach power cord.

First attach the flat end of the power cord completely into the connector on the back of your TV, and then plug the other end into a wall outlet.

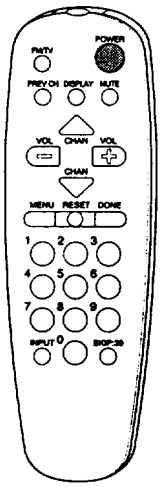


Downloaded from www.Manualslib.com manuals search engine

First-Time Operation

5. Turn on TV and place channels in memory.

Your TV is designed to place active channels into your TV's memory the first time you turn it on.



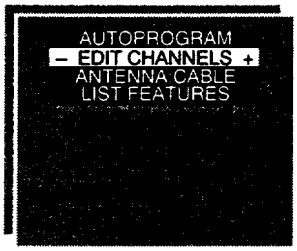
- Press *POWER* on the TV or remote to turn on the TV.
- The TV automatically cycles through all channel numbers and places active channels into the channel memory. When your TV is finished, it tunes to the lowest channel number in its channel memory.

6. Edit the channel memory.

You can add and erase channels from memory as desired.

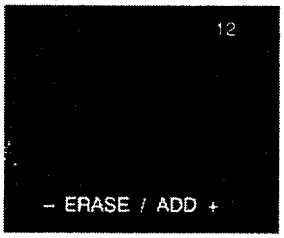
- Press *MENU* repeatedly to highlight *SETUP*. Then press + to select the *SETUP* menu.

- Press *MENU* repeatedly to highlight *EDIT CHANNELS*.



Press *MENU* repeatedly to see 2nd setup menu.

- Press + to select *EDIT CHANNELS*.
- Select the desired channel number by pressing the *CHANNEL* up or down button or by pressing two number buttons.

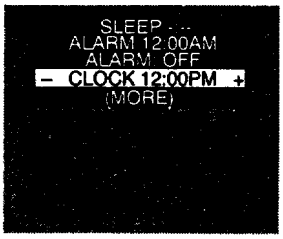


- Then press + to add a channel, or press – to erase a channel. *Details are on page 12.*
- Press *DONE* to remove the menu from the screen.

7. Set the clock.

- Press *MENU* repeatedly until *SETUP* is highlighted. Then press + to select the *SETUP* menu.

- Repeatedly press *MENU* to select *CLOCK*.



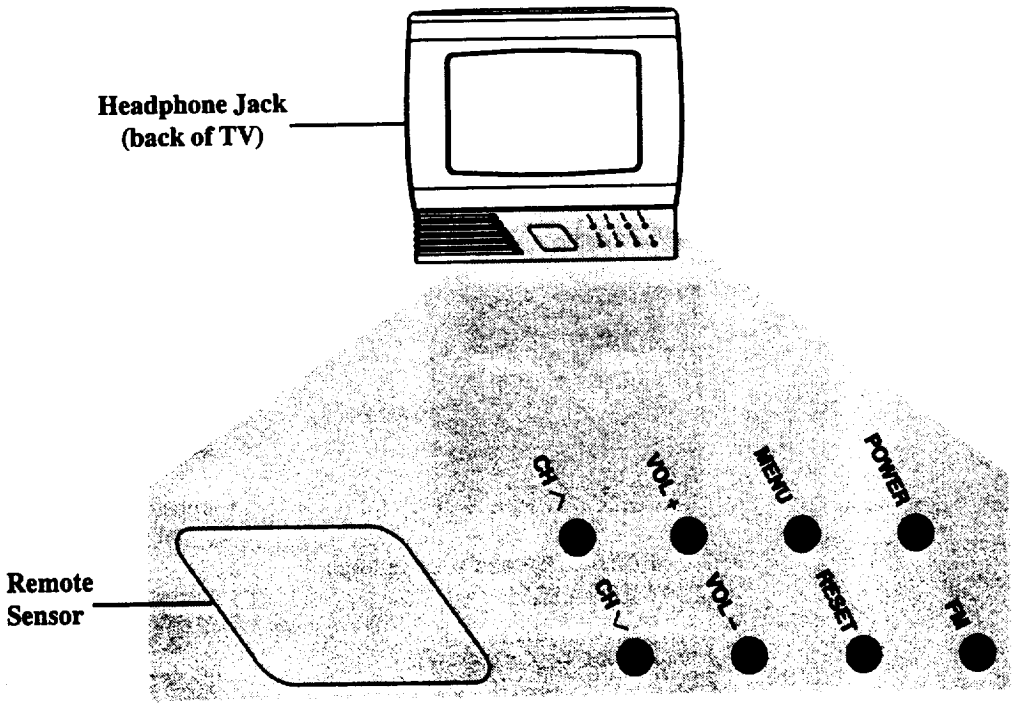
- Press and hold – to set the correct hour. Then press and hold + to set the correct minutes.
- Press *DONE* to remove the menu from the screen.

Downloaded from www.Manualslib.com manuals search engine

Controlling Your TV

Front Panel and Headphone Jack

Shown here are the front-panel buttons. The headphone jack is located on the back of the TV.



Remote Sensor

- When using the remote control, point it toward this sensor.

***CH* ∧ and ∨ Buttons (Channel Up and Down)**

- Press Channel up to see the next higher channel in memory.
- Press Channel down to see the next lower channel in memory.
- You can add or erase channels in memory as desired. *Details are on page 12.*

***VOL* Buttons (Volume Up and Down) (Also + and – Buttons)**

- Press *VOL* + to increase volume, or press *VOL* – to decrease volume.
- Press + or – to adjust the setting of a highlighted item.
- The volume display will automatically appear on the screen when you press the *VOL* buttons.

***MENU* Button**

- Press repeatedly until the item you want is highlighted, then press + or – to enter the menu.
- Press repeatedly to move down each menu screen and then press + or – to adjust each setting.
- To mute the TV, press once and then press +.

***RESET* Button**

- Press to return all video settings (color, tint, contrast, brightness, and sharpness) back to the original settings.

***POWER* Button**

- Press to turn the TV on or off.

***FM* Button**

- Pressing this button changes the TV to the FM mode to listen to the FM radio.
- If you are listening to the radio, pressing this button again switches to the TV mode for watching TV.

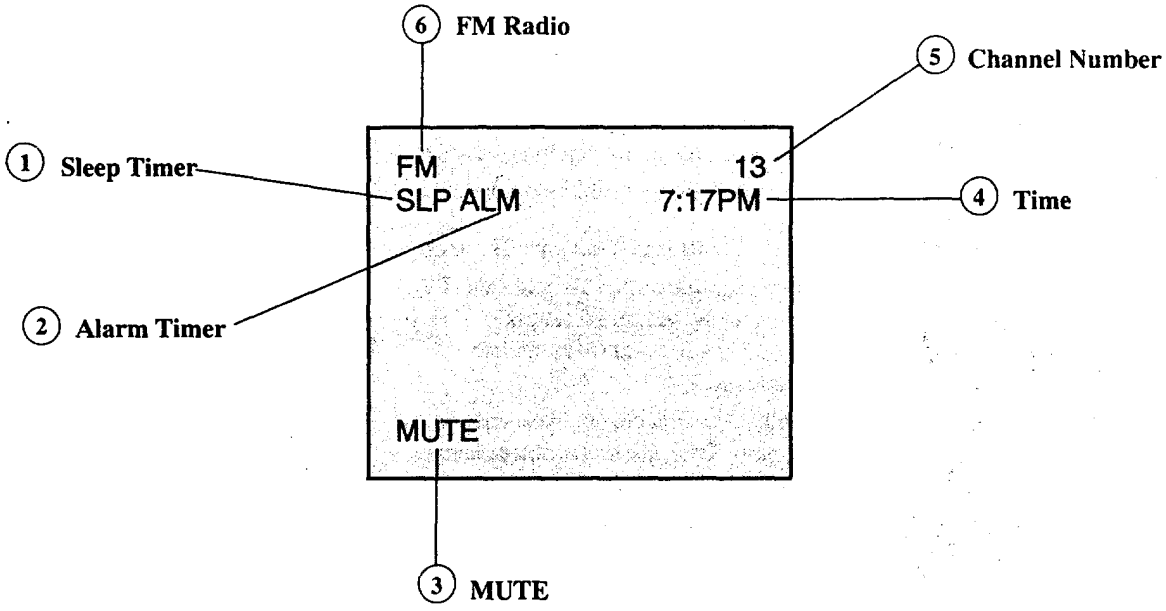
Headphone Jack (located on the back of the TV)

- You can plug an optional set of headphones into this jack for private listening. When headphones are attached, the sound comes through the headphones instead of the TV speaker.
- If the plug on your headphones does not fit the jack, adapters are available at your local electronics supply store.

Downloaded from www.Manualslib.com manuals search engine

Controlling Your TV

On-Screen Displays



1 Sleep Timer
This display appears when the sleep timer has been set. *Details are on page 10.*

2 Alarm Timer
This display appears when the alarm timer has been set. *Details are on page 11.*

3 *MUTE*
This display appears when the TV's sound is muted. Press *MUTE* on the remote or select it through the main menu. *Details are on pages 4* and *6.*

4 Time
This display appears after the clock is set whenever you change channels or press *DISPLAY* on the remote.

5 Channel Number
This display appears whenever you change channels or press *DISPLAY* on the remote.

6 FM Radio
This display appears whenever you change stations or press *DISPLAY* while in the FM radio mode. *Details are on page 7.*

Downloaded from www.Manualslib.com manuals search engine

Controlling Your TV

Remote Operation

When operating the remote, point it directly at the front of the TV without objects between that can block the signal to the TV.

***POWER* Button**

- Press to turn the TV on or off.

***FM/TV* Button**

- Pressing this button changes the TV to the FM mode to listen to the FM radio.
- If you are listening to the radio, pressing this button again switches to the TV mode for watching TV.

***PREV CH* Button (Previous Channel)**

- Pressing this button switches the TV back to the last tuned channel. This is useful if you want to watch two channels.
- Select the first channel you wish to watch. Then select the other channel by pressing two number buttons.
- The TV changes back and forth between the two channels each time you press this button.

***DISPLAY* Button**

- Press to display the time and channel number on the screen.
- Press to see if the Sleep Timer and/or Alarm Timer is set.
- Press to quickly remove menus from the screen.
- If using the FM radio, press to see the time and radio station on the screen.

***MUTE* Button**

- Press to quickly reduce sound to minimum level without affecting the picture.
- To restore sound, press *MUTE* again or press *VOL* up.
- *MUTE* can also be selected through the main menu.

***CHAN*△ /▽ Buttons (Channel up and down)**

- Press to select the next higher or lower channel in memory.
- If you are listening to the radio, press to scan the next higher or lower station.
- You can add or erase channels in memory as desired. *Details are on page 12.*

***VOL* Buttons (Volume up and down) (Also – and + Buttons)**

- Press *VOL* + to increase volume, or press *VOL* – to decrease volume.
- Press + or – to adjust the setting of a highlighted item.
- The volume display appears on the screen when you press the *VOL* buttons.

***MENU* Button**

- Press repeatedly until the item you want is highlighted, then press + or – to enter the menu.
- Press repeatedly to move down each menu screen and then press + or – to adjust each setting.
- To mute the TV, press once and then press +.

***RESET* Button**

- Press to return all video settings (color, tint, contrast, brightness, and sharpness) back to the original settings.

***DONE* Button**

- Press to clear the screen of all on-screen displays except *MUTE*.

Number Buttons (0-9)

- Press to access any channel number.
- To select a channel, press two number buttons. For example, press 0 then 6 for channel 6.
- To select a 3-digit number, press and hold number button 1 until 1-- appears on the screen. Then press the other two numbers.

***INPUT* Button**

- Switches the TV to channel 03. This is useful if you have a VCR connected to your TV.

***SKIP:30* Button (Commercial Skip)**

- Allows you to look at other channels during commercials using the *CHANNEL* buttons.
- Each press adds 30 seconds. The TV switches back to original channel when time runs out.

Downloaded from www.Manualslib.com manuals search engine

FM Radio Operation

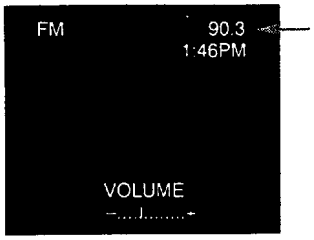
The FM radio is designed to work on either cable-TV or a home antenna. If your TV is connected to cable-TV, the radio will only work if your cable company broadcasts the FM radio signals. If your TV is connected to a home antenna system, you will be able to receive those channels broadcast in your area.

The radio can be used along with the sleep timer and alarm timer. Listen to music before going to sleep or wake up to music. *Details for "Setting the Sleep Timer" are on page 10 and "Setting the Alarm" are on page 11.*

You can also program up to six of your favorite radio stations into memory so you'll be able to quickly select them. Number buttons 1 through 6 on the remote control can be programmed to automatically select favorite channels.

Operating Radio

1. Turn on the TV and press *FM/TV* on the remote or *FM* on the front of the TV. The radio display appears on the TV screen.



You can also access the radio through the main menu. Press *MENU* until *FM RADIO* is highlighted.

When *TV* appears in the menu, you are in the radio mode. When *FM RADIO* appears in the menu, you are in the TV mode.

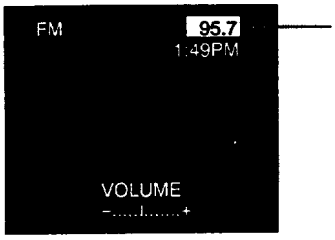
2. Press *CHANNEL* up or down to select the next available station. If the station you want to tune is not strong enough for the radio to lock in on it, you can select *FM MANUAL* from the radio menu. Pressing + or – will step through each frequency one at a time.

3. Press *VOLUME* up or down to adjust the volume.

Programming Radio Stations into Memory

1. Select the radio station you want to put into memory by pressing *CHANNEL* up or down. If the station cannot be locked in when you press the *CHANNEL* buttons, you can select *FM MANUAL* from the radio menu. Pressing + or – will step through each frequency one at a time.

2. When the station you want to program appears on the TV screen, first press number 0 to highlight the station number, and then press number 1.



The radio station is now assigned to number 1 and can be selected whenever you press number 1 when the TV is in the radio mode.

Number buttons 2, 3, 4, 5, and 6 can also be assigned to specific radio stations. Repeat steps 1 and 2 above to assign the numbers.

Tuning the National Weather Service (air antenna only)

The TV must be connected to an antenna (not cable-TV) and the *ANTENNA* function must be set to *AIR*. *Details for changing this function are on page 9.*

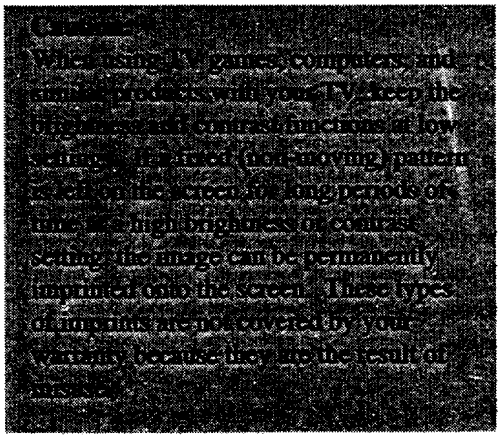
NWS is located between the highest and lowest number on the radio scale. When *NWS* cannot be located using the *CHANNEL* buttons, you may need to use the + or – button.

Downloaded from www.Manualslib.com manuals search engine

VIDEO Menu

Press *MENU* until *VIDEO* is highlighted. Then press + to select the *VIDEO* menu. Press *MENU* to move down the menu and + and – to adjust each function.

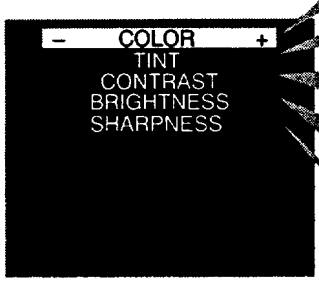
Press *MENU* to select *VIDEO*



Press + for 1st *VIDEO Menu* Screen

The *VIDEO RESET* function changes all the video functions (color, tint, contrast, brightness, sharpness) back to the factory settings. Press + or – to reset the video functions. *RESET* appears on the TV screen momentarily while the functions are being adjusted.

Press *MENU* until the second *VIDEO Menu* appears



The *COLOR* function adjusts the amount of color in the picture. Press + or – to select *COLOR*, then press + to increase or press – to decrease color.

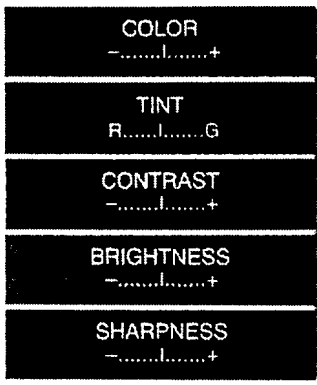
The *TINT* function adjusts the color of flesh tones. Press + or – to select *TINT*. Press + to add more green tint or press – to add more red tint.

The *CONTRAST* function adjusts the overall brightness and contrast of the picture. Press + or – to select *CONTRAST*. Press + to increase or press – to decrease contrast.

The *BRIGHTNESS* function adjusts the brightness of the dark portions of the picture. Press + or – to select *BRIGHTNESS*. Press + to increase or press – to decrease brightness.

The *SHARPNESS* function adjusts picture sharpness. Press + or – to select *SHARPNESS*. Press + to increase or press – to decrease.

Adjustment Displays



These functions are displayed individually at the bottom of the screen once they have been selected. The setting can be adjusted at that time by pressing either the + or – button.

Downloaded from www.Manualslib.com manuals search engine

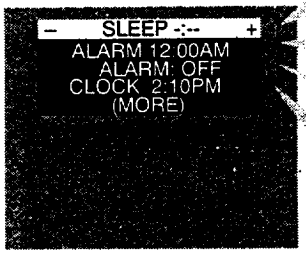
Operating Features

SETUP Menu

Press *MENU* until *SETUP* is highlighted. Then press + to select the *SETUP* menu. Press *MENU* to move down the menu and + and – to adjust each function. When using the FM radio, only the first Setup menu appears.

Press *MENU* to select *SETUP*

1st *SETUP MENU* Screen



By setting the *SLEEP* function, you program your TV or radio to turn itself off after a certain period of time. This is useful whenever you want to watch TV or listen to the radio for an hour or so before going to sleep. Press the + or – button to select the length of time you want the TV or radio to stay on. *Details are on page 10.*

You can program your TV or radio to turn itself on at a specific time by setting the *ALARM* time function and turning the *ALARM:ON/OFF* function *ON*. *Details are on page 11.*

The *ALARM:ON/OFF* function lets you turn the alarm on or off by pressing the + or – button. *Details are on page 11.*

After setting the *CLOCK* function, the time is displayed on the TV screen whenever you change channels or press *DISPLAY* on the remote control. Press and hold – to set the correct hours and + to set the correct minutes. *Details are on page 3.*

Press *MENU* until the second *SETUP* Menu appears

When you press + or – to start the *AUTOPROGRAM* function, the TV cycles through all channels and places only the active channels for your area in its channel memory. The channel memory is the list of channels the TV stops on when you press *CHANNEL* up or down. *Details are on page 12.*

The *EDIT CHANNELS* function allows you to edit the channel memory by adding or erasing channels. *Details are on page 12.*

The *ANTENNA:CABLE/AIR* function tells your TV whether you have cable or a home antenna connected to it. The TV adjusts this function for you when you start the *AUTOPROGRAM* function. If you wish to adjust it manually, press + or – to switch between the *CABLE* and *AIR* setting.

The *LIST FEATURES* function activates your TV to automatically list a variety of its special features. When this display is selected, start this feature by pressing the + button. The feature list continues until it is stopped by pressing any button on the front of the TV or *DONE* on the remote.

Downloaded from www.Manualslib.com manuals search engine

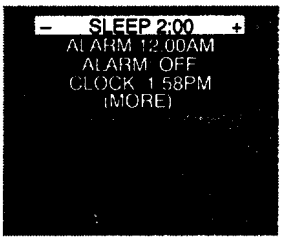
Sleep Timer Operation

By setting the Sleep Timer, you can program your TV or FM radio to turn itself off after a certain period of time (up to four hours). This is useful whenever you want to watch TV or listen to the radio for an hour or so before going to sleep.

Setting the Sleep Timer

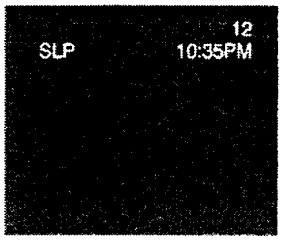
1. Press *MENU* until *SETUP* is highlighted. Then press + to select the *SETUP* menu.

2. Press + to select the length of time you want the TV to stay on. Each press of the + button adds 30 minutes. Each press of the – button subtracts 30 minutes.

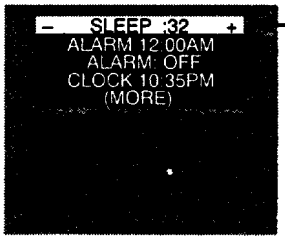


3. When finished, the display disappears from the screen in a few seconds. To make it disappear more quickly, press *DONE* on the remote.

4. When the Sleep Timer is turned on, the letters *SLP* appear on the screen whenever you change channels or stations or press *DISPLAY*.



5. Repeat step 1 to see the amount of time remaining before the TV shuts itself off.



32 minutes remaining

6. When the Sleep Timer counts down to one minute, the Sleep Timer display appears on the screen. When this display appears, press *DONE* to cancel the Sleep Timer if you want the TV or radio to remain on.

Cancelling Sleep Timer

Press *MENU* until *SETUP* is highlighted. Then press + to select the *SETUP* menu. Press the – button until the screen shows "-:- -".

Downloaded from www.Manualslib.com manuals search engine

Alarm Timer Operation

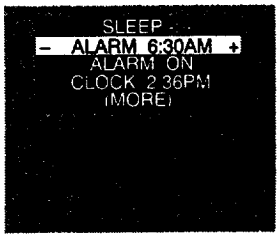
The TV or radio can be programmed to turn itself on at a specific time within a 24-hour period by setting the Alarm Timer. This is useful for using the TV as an alarm clock. Instead of waking up to a buzz, wake up to a favorite TV program. You may also set the timer for a special program that you might otherwise forget.

Once you set the Alarm Timer, the TV or radio turns on at the preset time, stays on for one hour, and then shuts off. You may need to adjust the channel and volume level before activating the Alarm Timer. The Alarm Timer turns on the TV to the TV channel or radio station at the volume level that was selected the last time the TV or radio was on.

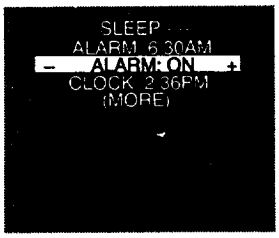
Setting the Alarm Timer

1. Press *MENU* until *SETUP* is highlighted. Then press + to select the *SETUP* menu.

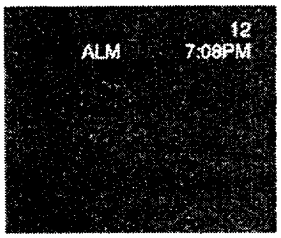
2. Press *MENU* until *ALARM* is highlighted. Press – to select the correct hour and press + to select the correct minutes.



3. After you set the *ALARM* time, press *MENU* to select *ALARM:ON/OFF*. Press + or – to switch this setting to the *ON* position.



4. When the Alarm Timer is turned on, the letters *ALM* appear on the screen whenever you change channels or press *DISPLAY*.

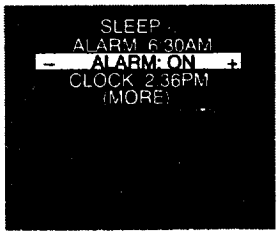


5. The TV turns on at the preset time and automatically sets the Sleep Timer to 1 hour (60 minutes). It operates for 60 minutes then shuts off.

6. To turn the TV off before the 60 minutes is up, just press *POWER* on the TV or the remote. If you wish to watch TV longer than 60 minutes, then cancel the Sleep Timer by setting it to "-:--". *Details are on page 10.*

Turning the Alarm On and Off

1. Press *MENU* until the *ALARM: ON/OFF* function is selected.



2. Press + or – to switch between *ON* and *OFF*.

Downloaded from www.Manualslib.com manuals search engine

Operating Features

AutoProgramming Channel Memory

The Channel Memory is the list of TV channel numbers your TV will stop on when you press the *CHANNEL* up or down button. You can program any list of channels into the channel memory although your TV is so automatic that you will probably never need to manually operate this feature. If you do, follow the instructions at the right.

The first time you turn on the TV, it cycles through all channels and places active channels into the channel memory. You can then add or erase channels as desired by following the instructions in the "Editing Channel Memory" section at the right.

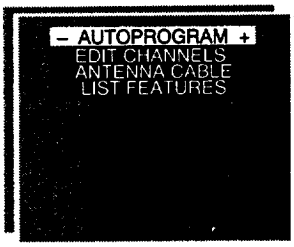
Notes:

- Signals from scrambled cable channels and some cable channels having unusual signal conditions may not be autoprogrammed.
- To prevent the TV from losing its channel memory, make sure the outlet you plug your TV into is "on" all the time. Do not plug the TV into an outlet that can be turned on and off by a wall switch. Also do not plug the TV into an outlet on the back of another device (such as a cable-TV converter box) that is turned off when the device is turned off.
- If there is an extended power failure, your TV will automatically reprogram active channels the first time you turn it on after the power failure.

1. Connect home antenna(s) or cable to your set.

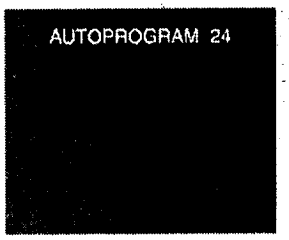
2. Press *MENU* until *SETUP* is highlighted. Press + to select the *SETUP* menu.

3. Repeatedly press *MENU* until *AUTOPROGRAM* is highlighted.



2nd *SETUP* Menu

4. Press + to begin AutoProgramming. The TV cycles through all channels and places only active channels into memory.



5. When the TV finishes cycling, you can check the channels in memory by pressing *CHANNEL* up or down.

Editing Channel Memory

Follow these instructions to erase and add channels.

1. Press *MENU* until *SETUP* is highlighted. Press + to select the *SETUP* menu.

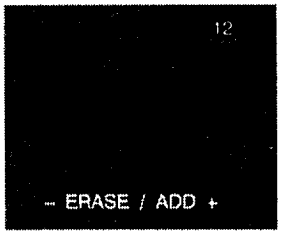
2. Repeatedly press *MENU* until *EDIT CHANNELS* is highlighted. Press + to select *EDIT CHANNELS.*

2nd *SETUP* Menu

3. Select the channel number by pressing *CHANNEL* up or down or two number buttons on the remote.

   When "+" appears next to the channel number, the channel is in the channel list. Press – to erase the channel.

   When "–" appears next to the channel number, the channel is not in the channel list. Press + to add the channel.



4. Press – to erase or press the + to add.

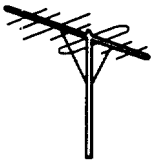
Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

Antenna/Cable Information

Most modern TV antennas receive both VHF (*Very High Frequency*) and UHF (*Ultra High Frequency*) channels. Channels 2-13 are VHF channels, and channels 14-69 are UHF channels.

Typical Indoor Antenna



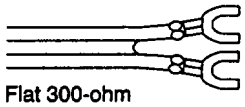
Typical Outdoor Antenna

In most situations you will get better picture quality if you use an outdoor antenna or connect your TV to a cable-TV system. If this is not possible, connect the indoor antenna supplied with your TV.

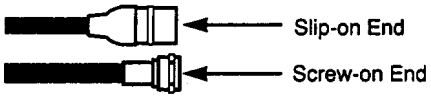
Cable-TV delivers both VHF and UHF channels and other channels not available from your antenna.

Shown below are two basic types of antenna cables. Signals from a home antenna may be conducted through either type. Cable-TV signals, however, are always conducted through round, 75-ohm coaxial cable.

Types of Antenna Cables

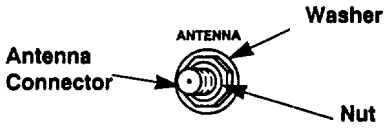


Flat 300-ohm twin-lead cable



Round 75-ohm coaxial cable

Use the connector shown below to connect your antenna or cable-TV system to the back of the TV.



IMPORTANT NOTE: Antenna connector, nut, and washer must be in place when TV is in use.

- Follow the instructions below if you intend to connect the indoor antenna supplied with your TV.

-or-

- Follow the instructions on *page 14* if you intend to connect an indoor or outdoor antenna to your TV.

-or-

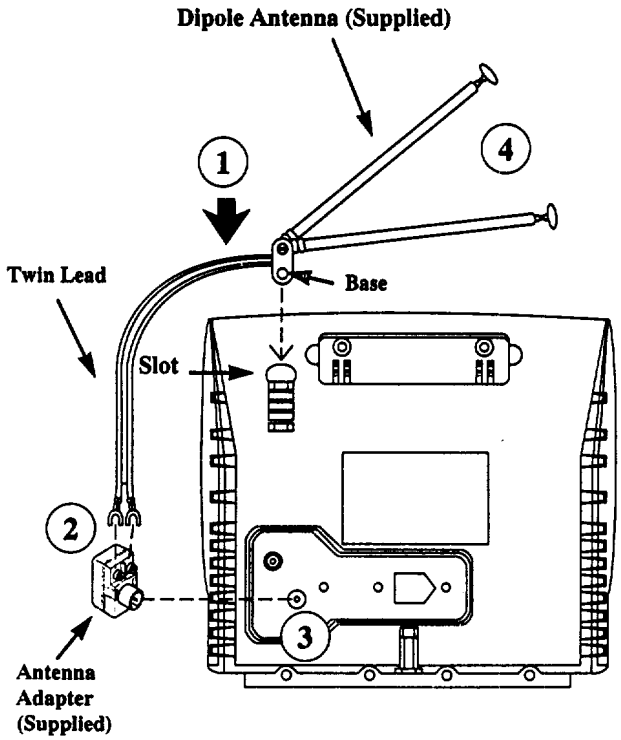
- Follow the instructions on *page 15* if you intend to connect a cable- TV system to your TV.

Connecting Supplied Antenna to Top of TV

Follow these steps to connect the indoor antenna supplied with your TV (only if you do not connect an outdoor antenna or a cable-TV system). Attach the antenna to the top of the TV unless you are going to mount the TV under a cabinet. *See page 19 for attaching antenna to the bottom of TV.*

Dipole Antenna (supplied)

1. Insert the antenna base into the pocketed slot on the back of your set. Stand at the back of your set with the antenna twin-lead facing you, and press the base of the antenna into the slot until it locks in place.
2. Connect the ends of the twin-lead to the Antenna Adapter (supplied).
3. Connect the Antenna Adapter to the *ANTENNA* connector on the back of the TV.
4. Later, after you've turned on the TV, adjust the length and position of the antenna rods for best reception.
   - For viewing VHF channels, extend the rods fully.
   - For viewing UHF channels, shorten the rods for best reception.
   - For listening to the radio, adjust the antenna rods for best reception, if necessary.



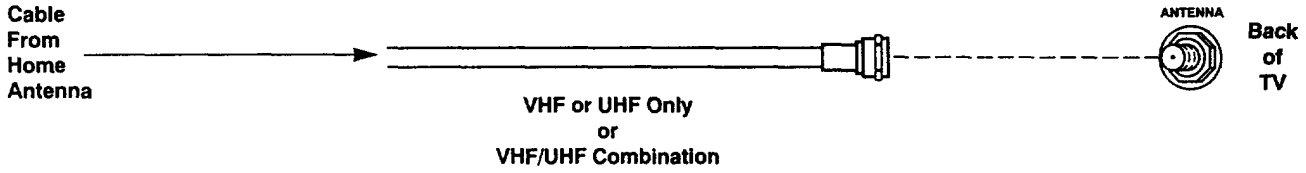
Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

Home Antenna Connections

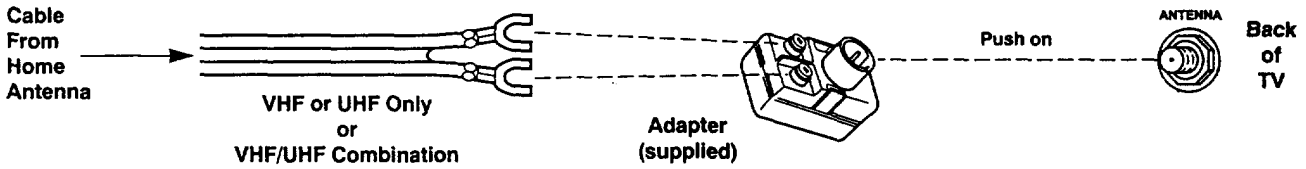
Follow one of the steps below to connect an indoor or outdoor antenna to your TV (not a cable-TV system).

A If the antenna cable coming from your home antenna is a 75-ohm round coaxial cable that carries only VHF (channels 2-13), only UHF (channels 14-69), or VHF and UHF channels, connect it to your set like this:



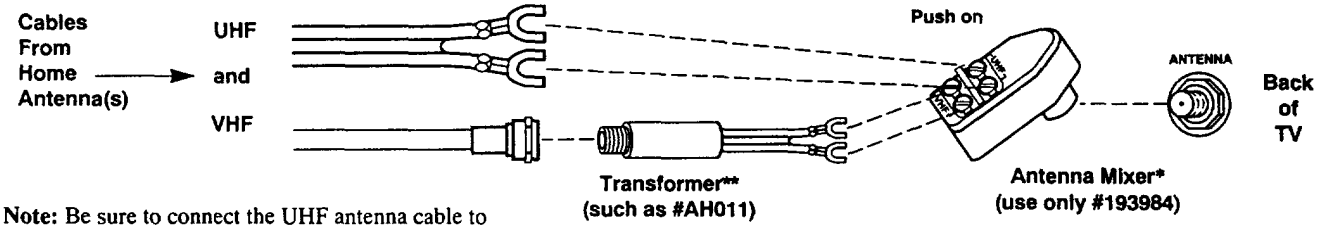
–OR–

B If the antenna cable coming from your home antenna is a 300-ohm flat twin lead that carries only VHF (channels 2-13), only UHF (channels 14-69), or VHF and UHF channels, connect it to your set like this:



–OR–

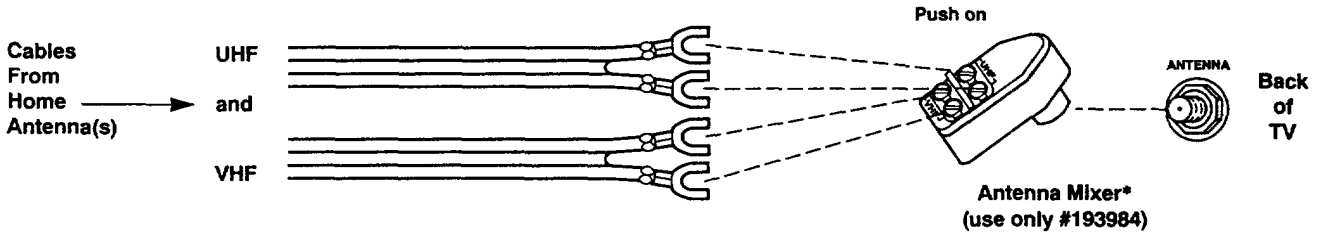
C If the antenna cables coming from your home antenna(s) are a 75-ohm round coaxial cable that carries VHF (channels 2-13) and a 300-ohm flat twin-lead cable for UHF (channels 14-69), connect them to your set like this:



Note: Be sure to connect the UHF antenna cable to the UHF screws on the Antenna Mixer and the VHF antenna cable to the screws marked VHF.

–OR–

D If the antenna wires coming from your home antenna(s) are two 300-ohm flat twin-lead cables as shown here, connect them to your set like this:



Note: Be sure to connect the UHF antenna cable to the UHF screws on the Antenna Mixer and the VHF antenna cable to the screws marked VHF.

* ⚠ Optional accessory available from your dealer. Only use Antenna Mixer (Stock #193984).

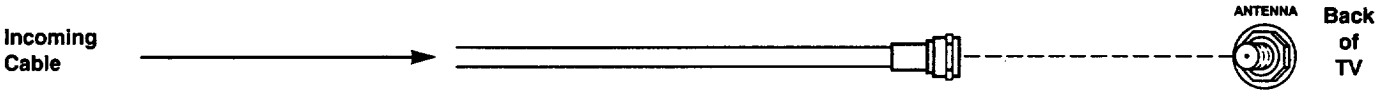
Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

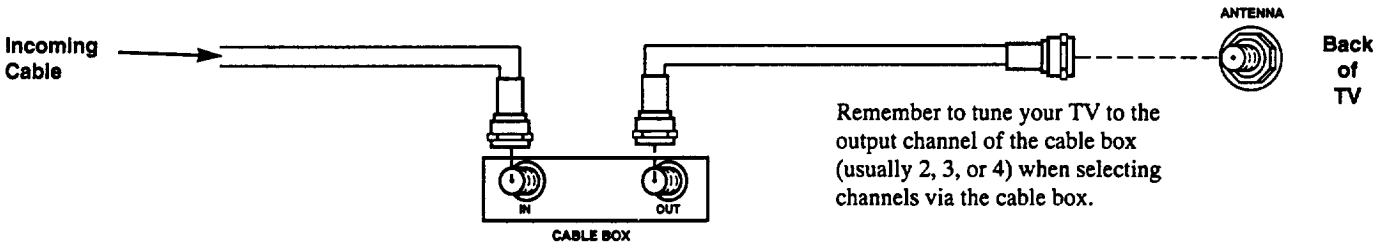
Cable-TV Connections

Follow one of these steps to connect a cable-TV system to your TV instead of a home antenna. Since cable-TV systems vary, you may wish to consult your local cable-TV company for additional information.

A Follow this diagram if your cable company does not require a cable box (no scrambled channels):

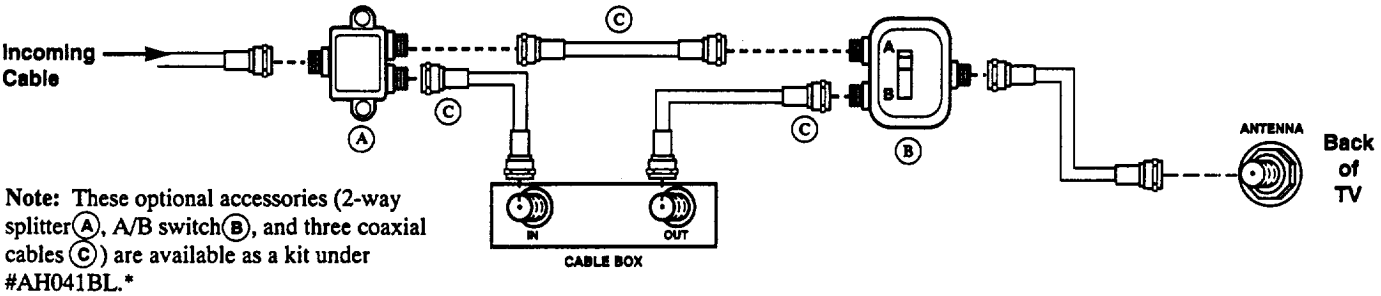


B Follow this diagram if your cable company requires a cable box that can be controlled by remote control:



Remember to tune your TV to the output channel of the cable box (usually 2, 3, or 4) when selecting channels via the cable box.

C Follow this diagram if your cable company requires a cable box that cannot be controlled by remote control:



Note: These optional accessories (2-way splitter Ⓐ, A/B switch Ⓑ, and three coaxial cables Ⓒ) are available as a kit under #AH041BL.*

The "A" position on the A/B switch lets you select all non-scrambled channels by the TV's remote.

The "B" position allows you to select scrambled channels via the cable box. Remember to tune your TV to the output channel of the cable box (usually 2, 3, or 4) when selecting channels via the cable box.

* Optional accessories are available from most dealers or electronics supply stores.

Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

Cable-TV Operation

Your new TV is designed to receive up to 181 TV channels, including 125 non-scrambled cable channels (see chart below). To use this TV on a cable-TV system, confirm that the cable-TV system is properly connected to your TV. Since cable systems vary, you may wish to consult your local cable-TV company for additional information.

If your cable-TV company follows EIA/NCTA channel-identification standards, most of the channels offered by your cable company will be identified by channel numbers that are identical to those on your TV. For example, if your cable-TV system has programs on cable channel 20, you can choose this channel by selecting channel 20 on your TV.

Some cable-TV companies do not follow the EIA/NCTA standards and instead assign their own channel identification. For example, some use the standard broadcast channel numbers (2-13) for channels 2-13, but identify their other channels with letters. If your cable company does not follow the EIA/NCTA standards, ask them for a cross reference that shows to which channels you should tune your TV to receive their cable-TV channels.

Scrambled Cable-TV Channels
Some cable companies offer "premium-pay" channels in which the signal is scrambled. Descrambling these signals for normal viewing may require the use of a cable box which is generally provided by the cable company.

How you connect the cable box to your TV depends upon whether or not the cable box can be controlled by remote control. If your cable box is remote controllable, you will want to connect it as shown in Diagram B on the previous page.

If your cable box cannot be controlled by remote control, you will still be able to remotely control "unscrambled" channels with the connection shown in Diagram C on the previous page.

The chart below lists the "total" channel and cable capability count.

Channels	Off Air	Cable
• Low VHF A-8 (Channel 01)	—	1
• VHF (Channels 2-13)*	12 *	12 *
• UHF (Channels 14-69)	56	—
• Low Midband A-5 through A-1 (Channels 95-99)**	—	5**
• Midband (Channels 14-22 or A-I)	—	9
• Superband (Channels 23-36 or J-W)	—	14
• Hyperband (Channels 37-64 or W+1 to W+28)	—	28
• Ultraband (Channels 65-94 and 100-125 or W+29 to W+84)	—	56
Total*	68	125

* VHF is only counted once in total channel count because you can receive channels 2-13 on both "off-air" and "cable" channels. Therefore the total channel count for "off-air" and "cable" is 181 channels (68+125-12=181).

** Channels 95, 96, and 97 are not applicable in Canada. Therefore, the total number in Canada is 178.

Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

Mounting Your TV

Follow the instructions below if you want to mount your TV under a cabinet.

Required Tools

- Rule or Tape Measure
- Masking Tape
- Scissors
- Phillips Screwdriver
- Blade Screwdriver
- Drill and 1/4" Drill Bit
- Drill Countersink Attachment (Optional)

Mounting Considerations

- Make sure the bottom of the cabinet you select is strong enough to hold the TV.
- Allow adequate room on both sides of the TV to allow proper ventilation, access to control knobs, and room to swivel the TV for viewing ease.
- If you plan to use the attachable antenna, allow sufficient space around the set to extend the antenna and adjust its position.
- Mount your TV near an AC power outlet so the power cord will reach it.
- The area directly below your TV must not be used for cooking with appliances that generate heat or steam.
- Hold the TV in various locations while you think through what will be the most convenient location in your kitchen. Keep in mind your normal work pattern, especially your use of other electrical countertop appliances.
- Before mounting, turn the set on to check the reception in the location you have selected.
- If the reception is poor in the location you have selected, you may want to try another location as far away as possible from large metal appliances such as refrigerators, ovens, etc.

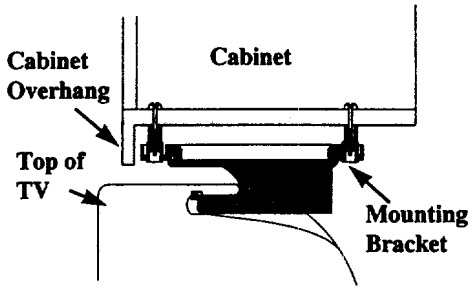
Warning to RV Owners

The mounting bracket provided with this TV is not designed or recommended for under cabinet mounting in an RV or motor home. The TV may dislodge from the mounting bracket while the vehicle is in motion, causing damage to the unit or possible personal injury.

1. **Prepare cabinet.**
   - To prevent breakage, remove items from the cabinet under which the TV will be mounted.
   - Clean the underside of the cabinet to remove any residue which might be present.
2. **Cut out the mounting guide and screw guide.**
   - Cut out the guides on the lines indicated.
   - The size of the mounting guide and the screw hole positions are identical to the top of the mounting bracket.
3. **Position mounting guide on underside of cabinet.**
   - Position the mounting guide on the underside of cabinet 3/4 inch back from the cabinet's front edge.
   - Position the mounting guide in the desired location and tape it to the bottom of the cabinet. Be sure it is on a flat surface free from any glue lumps or other bumps.

   Notes: Some kitchen cabinets have front overhangs as shown here. If the thickness of the overhang exceeds 3/4 inch, tape the mounting guide as close to the cabinet's front edge as possible. The farther back you mount the TV, the less you will be able to swivel it to the left and right (if cabinet is near wall).

   The TV will protrude about 3" from the cabinet when the mounting guide is positioned 3/4" back from the cabinet's front edge.



4. **Drill holes in cabinet.**
   - Drill 1/4-inch diameter holes through the underside of the cabinet bottom using the five circles on the mounting guide as a guide.

   Helpful Hints:

   - You may want to start the drill holes with a nail or an awl.
   - Splintering will be reduced if you place masking tape above the hole locations on the inside of the cabinet.
   - Be sure to hold the drill firmly against the cabinet to reduce "walking" of the drill bit from the markings.
   - If you have a countersink attachment for your drill and if you are drilling through a wood cabinet, you may wish to countersink the drilled holes from the inside of the cabinet. This will eliminate the use of washers and allow the screw heads to be flush with the floor of your cabinet. If you cannot countersink the holes, use the washers that are supplied.

Caution: Check thickness of shelf before attempting to countersink holes. Minimum thickness should be at least 1/4" (3/8" or more preferred).

continued on next page

Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

Mounting Your TV

5. Remove mounting guide and drill shavings.

Remove the mounting guide and clean the drill shavings from inside and under the cabinet.

6. Select spacers if required.

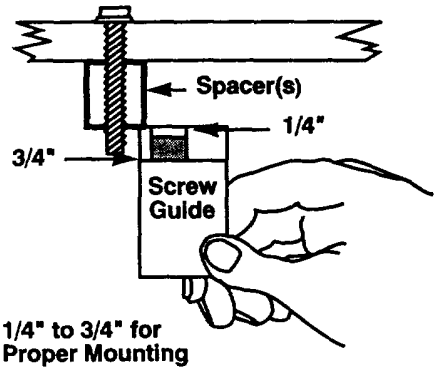
- The spacers slip over the ends of the screws and allow you to mount the TV below the edge of the cabinet's overhang.
- If your cabinet does not have an overhang, you probably will not need to use any spacers.
- If your cabinet has an overhang, select the proper length spacer(s) so the TV will clear the overhang when swiveled.
- Two or three spacers can be used together to make lengths of 1/4" to 1-3/4" at 1/4" increments. Refer to the chart below to select the proper spacers:

Length of Overhang	Length of Spacers
Less than 1"	None Required
1" to 1-1/4"	1/4" Spacers
1-1/4" to 1-1/2"	1/2" Spacers
1-1/2" to 1-3/4"	3/4" Spacers
1-3/4" to 2"	1" Spacers

7. Select proper length of screws.

- Only five screws are needed. The size you need depends upon your type of cabinet.
- Holding the selected spacers for one of the screw holes under the cabinet, install a washer and screw inside the cabinet using one of the three lengths of screws provided.

Note: A visual description of these parts is on page 2.



1/4" to 3/4" for Proper Mounting

- If the screw threads fall within the shaded area of the screw guide, then the selected screw is of the proper length for mounting the bracket.
- If the threads end above or below the shaded area, try one of the other sizes of screws provided. (Screw length must fall into the shaded area on the screw guide for proper mounting.)

Caution: If the screw is too short, it will not screw into the nut far enough to securely hold the TV. If the screw is too long, it may protrude below the bracket and the TV could hit it when swiveled.

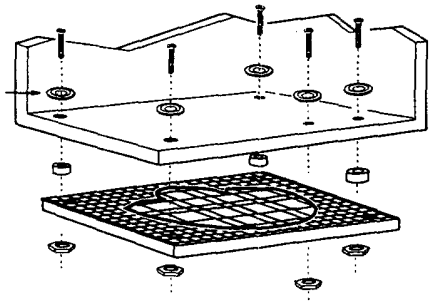
Note: If none of the screws provided are the proper length for your cabinet, you can do one of the following:

a) Increase the spacer length by 1/4" and try one of the longer screws provided.

b) Purchase proper length screws at your local hardware store (type #10-32).

8. Position mounting bracket under cabinet.

- Position the mounting bracket under the cabinet as shown and match the screw holes.



9. Attach mounting bracket to cabinet.

- First mount one corner of the bracket. Hold the bracket and spacer(s) in place and insert the screw **from the inside of the cabinet** down through washer and drilled hole or down through countersink and drilled hole.

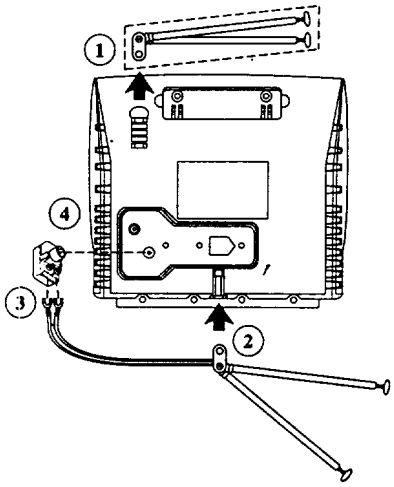
  Note: The washers must be used on metal cabinets and on wood cabinets if you do not countersink the drilled holes.
- Position the washer flat-side down and place screw into screw hole, through the spacer(s) and through the screw hole in the mounting bracket.
- Place a nut into the cylinder at the bottom of the mounting bracket screw hole. Hold nut in place (if necessary, use the top of a pencil). While maintaining upward pressure on the mounting bracket, finger tighten the screw. Do not tighten firmly until all five screws have been started.
- Align each of the remaining mounting bracket screw holes with the drilled holes and properly position the selected spacers. Install washers, screws, and nuts as previously described. Now, finish tightening the five screws but do not overtighten them.

Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

Mounting Your TV

10. (Optional) Attach Supplied Antenna to Bottom of TV.



If you have attached the supplied dipole antenna to the top of your TV, you will need to attach it to the bottom of your TV before mounting it. If you have connected another type of antenna, skip to step 11.

(1) If the dipole antenna is attached to the top of the TV, you can remove it by grasping the base and lifting it up and off.

(1) Insert the antenna base into the pocketed slot on the bottom of your TV. Press the base of the antenna into the slot until it locks in place.

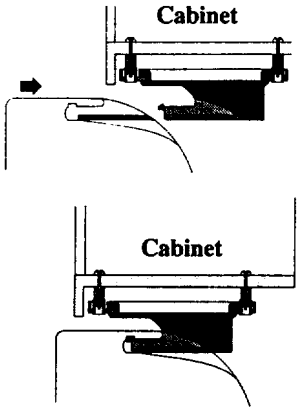
(3) Connect the ends of the twin-lead to the antenna adapter (supplied).

(4) Connect the antenna adapter to the round antenna connector on the back of the TV.

(5) Later, after you have turned on the TV, adjust the length and position of the antenna for best reception.

- For viewing VHF channels 2-13, extend the rods fully.
- For viewing UHF channels 14-69, shorten the rods for best reception.
- For listening to the radio, if necessary, adjust the antenna rods for best reception.

11. Slide TV onto Bracket



Move TV completely to rear of bracket.

Slide the TV onto the mounting hook of the bracket and push it all the way back until the two back hooks on the bracket lock into the back of the TV.

Note: The TV must be slightly below the cabinet overhang when installed in the bracket. Some clearance is necessary so the TV can be easily rotated to the desired viewing angle or removed for portable use.

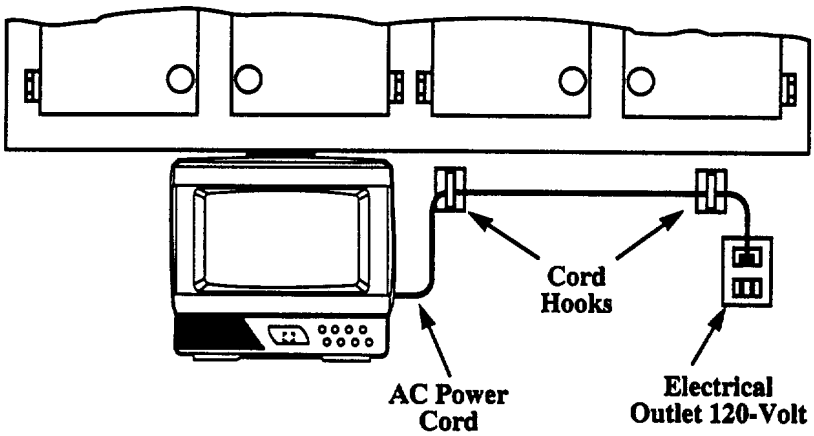
12. Attach AC Power Cord.

- First attach the AC power cord to the 4-prong connector on the back of the TV.
- Then extend the cord and plug it into an electrical outlet.

13. Attach Cord Hooks.

- You can use the cord hooks to hold the cord out of the way.
- For the most attractive appearance, place the cord hooks at the back edge of the cabinet (on or next to the wall) directly above the outlet to be used.
- To attach the cord hooks, peel off the adhesive back and attach the hooks to a clean, dry surface on underside of cabinet or back wall.
- Use the cord tie that is attached to the power cord to wrap and tie

Warning: Do not operate hot appliances, such as fry pans, toasters, coffee makers, etc. under the TV when mounted above a counter using the mounting bracket. Excessive heat can damage cabinet and may cause a shock hazard.



Downloaded from www.Manualslib.com manuals search engine

Connecting Your TV

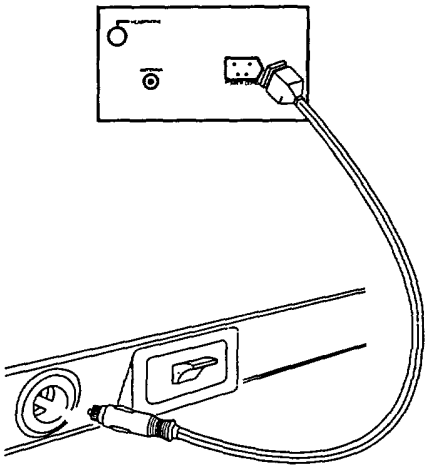
Using DC Power Cord

How to Operate TV on DC Power (Car Battery)

You can power your TV from a 12-volt car, truck, or RV battery by using the optional DC power cord. Instructions are below.

1. Unplug the AC cord from the wall outlet.
2. Unplug the AC cord from the back of your TV.
3. Plug the square end of the DC power cord into the back of your TV. (Use the same 4-prong outlet for both the AC cord and the DC power cord.) The plug is designed to fit only one way.

Back of TV



4. Plug the round end of the DC power cord into an automobile cigarette lighter socket.
5. Operate the TV the same way as you would if the set were on AC power.

Important

- The DC power cord is designed for use only in cars with negative (-) ground (negative terminal of car battery is connected to car chassis).
- The DC power car cord should never be used in cars with a positive (+) ground.
- If you are unable to identify the negative (-) or positive (+) polarity of your car, consult your car's owner's manual or check with a service station before use.

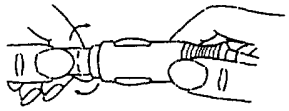
Cautions for Car Battery Operation

- Use of an improper DC power cord or similar adapter may result in damage to your TV.
- Avoid using the TV in a car unless the engine is turned on and running. Doing so will drain the car battery which may cause the car not to start properly.
- Do not put the TV on the dashboard or leave it in a car parked in direct sunlight since the temperature inside the car may damage the set.
- If taking the TV from a cold car to a warm room, do not attempt to plug in the set if there is any sign of condensation. This could damage the set.
- Be sure not to block any of the ventilation slots when the set is turned on. This may cause overheating and damage the set.

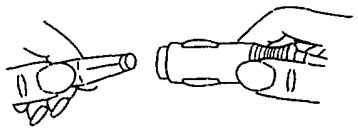
Replacing Fuse in DC Power Cord

There is a safety fuse in the plug of the DC power cord. If the fuse blows out, follow the steps below to replace it.

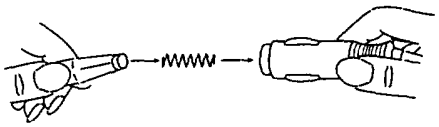
1. Unscrew the end of the plug by turning it counterclockwise.



2. When you remove the end, you will see the fuse.



3. Replace fuse with a new 125-volt, 13-amp fuse such as #149823 (available from your local dealer).



Note: If the spring falls out of the plug, be sure to install it before you reattach the end.

4. Screw end (with new fuse attached) back on plug.

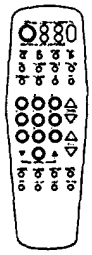
Downloaded from www.Manualslib.com manuals search engine

Accessories

Remote Control
This is the remote that came packed with your TV. You can use the order form to order it direct by mail.

213723

Optional Remote
This remote not only controls your TV but can also control most brands of remote-controllable VCRs, cable boxes, and audio equipment.

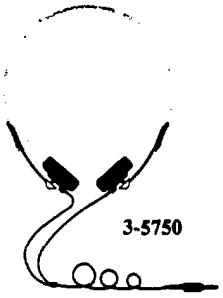


RCU100

Dipole Antenna
Designed to attach to the back of your TV. Can be used for both VHF and UHF channels.

198792

Stereo Headphone
These lightweight, high performance headphones let you listen to your TV without disturbing others. These headphones come with two adapters for maximum versatility when using them with other products.



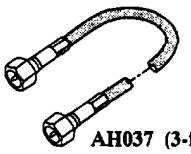
3-5750

1/4-inch Stereo Adapter

3.5mm Mono Adapter

Antenna Cables

Screw-on Antenna Cable
Attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.



AH037 (3-ft)

Push-on Antenna Cable
Attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. Ends push on for a quick connection.

Gold-Tipped Cables
AH065G (6-ft)
AH066G (10-ft)

Note: All specifications and descriptions of accessories are subject to change without notice.

Downloaded from www.Manualslib.com manuals search engine

Accessories

United States and Canada Orders

Order by phone using your Visa or MasterCard. Call the toll-free number listed below between 8AM and 8PM Eastern Standard Time. **Use this number only to place an order for accessory items listed on this order form.**

1 – 800 – 338 – 0376

Most orders are shipped UPS within 72 hours of receipt. If it is not possible to ship within 30 days, we will notify you.

For mail order, detach and mail the completed order form with credit card information, money order, or check in U.S. currency (made payable to Thomson Consumer Electronics) to the following address:

Video Accessories
P.O. Box 8419
Ronks, PA 17573

For more information on these accessories write to the following address:

Video Accessories Customer Service
Thomson Consumer Electronics
Distributor & Special Products
2000 Clements Bridge Rd
Deptford, NJ 08096-2088

International Orders

This offer is valid only in the 50 United States. For international orders, please send your request for quotation (not an order) to:

International Customer Service
Thomson Consumer Electronics
Distributor & Special Products
2000 Clements Bridge Rd
Deptford, NJ 08096-2088 USA

Downloaded from www.Manualslib.com manuals search engine

Caring for Your TV

Cleaning and Care

Dust TV as required, using a soft cloth or the dusting attachment of your vacuum cleaner. Occasionally vacuum the ventilation slots in the cabinet to help assure adequate ventilation. Take care not to scratch the plastic surfaces.

If your TV's cabinet has a textured finish, do not use furniture polish. Because textured finishes are porous, using furniture polish will mar their appearance. They can be easily cleaned with a damp, soft cloth.

To clean the screen, you can wipe it with a damp, soft cloth. Then dry it with a soft cloth. (A mild soap may be used on the screen if it is extremely dirty.) Be sure to turn off the TV before cleaning the screen, and do not allow liquid to run down the screen and inside the TV.

A special antistatic cleaning and polishing solution (AH035) is available for use on most TV screens and non-textured cabinets. This non-abrasive formula imparts brilliance, repels static, and resists fingerprints. Lint-free polishing cloths are included.

AH035

Do not use strong cleaners, polishes, or chemically-treated cloths to clean the screen or cabinet.

Avoid placing drinks or vases with water on top of your TV.

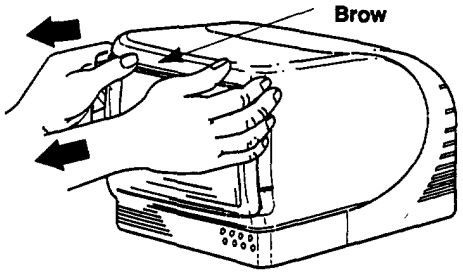
To prevent fire or shock hazard, do not expose this TV to rain or moisture.

Contrast Enhancement Filter

Your TV has a contrast enhancement filter which may need to be cleaned periodically.

Removing the Filter

The filter is held in place by four tabs—two tabs on the left side and two on the right.



1. To remove the filter, us both hands. Grasp the sides of the filter as shown above, putting your thumbs on the top brow of the cabinet (above the sunscreen).
2. Use your fingernails to loosen the screen, and then gently pull straight outward to avoid breaking tabs.

Caution: To avoid breaking the tabs, do not move the screen up-and-down (or side-to-side) while removing it. Pull the screen straight outward until the tabs are completely released from their holders.

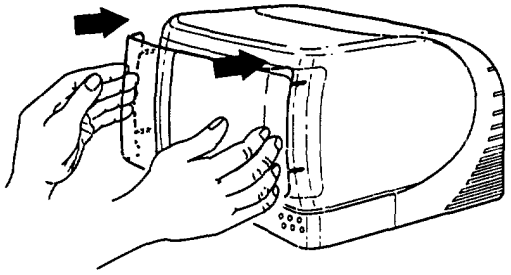
Cleaning the Filter

Do not clean the filter with a dry cloth because the dust may scratch the surface. Also, do not use cleaning solutions, ammonia, or abrasive cleaners.

1. After removing the filter, flush it with cool water to remove the dust.
2. Then wash it in a solution of one teaspoon dishwashing detergent to a pint of lukewarm water.
3. Wash, rinse, and dry the filter with a soft, lint-free cloth. To obtain a long-lasting dust free surface, treat it with a general purpose anti-static solution (such as AH035) prior to drying it.

Replacing the Filter

1. To replace the filter, first align it with the front of the TV screen. If the tabs do not align, the screen is probably upside down.
2. Then insert all four tabs straight into their corresponding notches, and gently press the filter against the screen until it fits securely.



Downloaded from www.Manualslib.com manuals search engine

Trouble Checks

You may have problems that can be fixed with a few minor adjustments. Look for the type of problem you are having below and then try the suggestions to get your TV going again. *For warranty information see the back cover.*

TV Trouble	Checks and Adjustments
TV will not turn on	• Check to make sure it is plugged in. • Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else. • Maybe batteries in remote are "dead". Try using *POWER* button on TV. • Maybe remote control was not aimed at remote sensor. • Make sure power cord is fully inserted into back of TV.
Controls don't work	• Try unplugging set for 15 minutes and then turning it on again. • Make sure power cord is fully inserted into back of TV.
Intermittent or no remote	• Maybe something was between the remote and the remote sensor. • Maybe batteries in remote are weak or dead. Try replacing batteries. • Maybe batteries were installed incorrectly. Try replacing batteries correctly.
Turns off while playing	• Sleep Timer function may have been activated. • If TV turned on because of alarm, it will automatically turn off after one hour. • Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high. • Make sure power cord is fully inserted into back of TV.
Turns on unexpectedly	• Alarm function may be turned on.
Blank screen	• Try another channel. • Maybe FM radio is selected. Try pressing *DISPLAY* button on the remote.
No sound, picture okay	• Maybe sound is muted. Try pressing *VOL* up button to restore sound. • If headphones are connected, sound from TV speakers will be muted.
Can't select certain channel	• Channel may not be in channel memory. Try using number buttons. • If using VCR, check to make sure *TV/VCR* switch on VCR is in correct position. • To select cable-TV channels over 99 (up to 125), press and hold number button 1 until 1-- appears on the screen. Then press the other two numbers.
No picture, no sound	• If watching VCR (connected through antenna input), make sure TV is tuned to channel 3 or 4–same as *CH3/CH4* switch on VCR. Also check to make sure *TV/VCR* switch on VCR is in correct position. • Maybe FM radio is turned on but not tuned to an active station. Press *DISPLAY* on remote.
Sound okay, picture poor	• Check antenna connections. • Try adjusting *SHARPNESS* function to improve weak signals.

Downloaded from www.Manualslib.com manuals search engine

Trouble Checks

TV Trouble	Checks and Adjustments
Picture okay, sound poor	•Try another channel.
Improper color in one or more areas of the picture during AC operation.	•Try unplugging set for a minimum of 15 minutes and then turning it on again. For best results you should place the set in the position you will be watching it before you plug it back in.
DC power car cord doesn't work (set will not operate with DC power cord but will with AC cord)	•Make sure cord is firmly attached to both cigarette lighter socket and back of TV. •Check fuse in DC power cord. You may need to replace the fuse. •Check to see if cigarette lighter works.

FM Radio Trouble	Checks and Adjustments
Can't tune any stations	•If TV is connected to cable-TV, check with the cable company to see if they are broadcasting FM radio stations.
No sound	•Maybe sound is muted. Try pressing *VOL* up to restore sound.
Turns off while playing	•*SLEEP TIMER* function may have been activated. •If radio came on because of the alarm, it will automatically shut off after one hour. •Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds then turn on again. If this happens frequently, the voltage in your house may be abnormally high. •Make sure the power cord is fully inserted into back of TV.
Turns on unexpectedly	•*ALARM* function may be turned on.
Can't receive National Weather Service (NWS)	•Check TV's *ANTENNA: CABLE/AIR* function. The radio will only receive NWS (National Weather Service) if it is in the *AIR* mode. •You will not be able to receive NWS if you have cable-TV connected to your TV. You must have a home antenna connected as explained on page 7. •The NWS may not be broadcast in your area. Check with the National Weather Service closest to you. It should be listed in the phone book.
Can't select certain station	•Station may not be strong enough to activate the scan function. Try using the + and – buttons on the remote.

Downloaded from www.Manualslib.com manuals search engine

Limited Warranty

What your warranty covers:
- Any defect in material or workmanship.

For how long after your purchase:
- 90 days for labor charges.
- One year for parts.
- Two years for picture tube.

The warranty period for rental units begins with the first rental.

What we will do:
- Pay any Authorized RCA Television Servicenter the labor charges to repair your television.
- Pay any Authorized RCA Television Servicenter for the new or, at our option, rebuilt replacement parts and picture tube required to repair your television.

How you get service:
- For screen sizes of 20" and smaller:
  Take your RCA television to any Authorized RCA Television Servicenter.
- For screen sizes larger than 20":
  Request in-home service from any Authorized RCA Television Servicenter.
- To identify your nearest Authorized RCA Television Servicenter, ask your Dealer, look in the Yellow Pages, or call 1-800-336-1900.
- Show the service technician your evidence of purchase date.

If your TV needs service, please contact your dealer or the nearest servicenter. Please do not send any products to the Indianapolis address listed below or on the box. This only adds delays for service of your TV. *See how to get service above in the warranty.*

What your warranty *does not* cover:
- Customer instruction. (Your Owner's Manual clearly describes how to install, adjust, and operate your television. Any additional information should be obtained from your Dealer.)
- Installation and related adjustments.
- Signal reception problems not caused by your television.
- Damage from misuse or neglect.
- Remote control batteries.
- A television that has been modified or incorporated into other products or used for institutional or other commercial purposes.
- A television purchased or serviced outside the USA.

Product Registration:
- Please complete and mail the *Product Registration Card* packed with your TV. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

How state law relates to this warranty:
- This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

If you purchased your television in Canada:
- The Canadian Warranty applies in place of this Warranty.

If you would like a copy of this manual in French, please follow the instructions below.

Si un livret d'instructions en français n'est pas inclus avec votre appareil, vous pouvez en obtenir un (INDIQUER LE NUMÉRO DE MODÈLE, VOTRE NOM, ET VOTRE ADRESSE) en vous adressant à:

Thomson Électronique Grand Public du Canada
Service des donnees techniques
6540 Tomken Road
Mississauga, Ontario, Canada
L5T 2E9

RCA

Thomson Consumer Electronics
600 N Sherman Dr, PO Box 1976
Indianapolis, IN 46206-1976

©1993 Thomson Consumer Electronics, Inc.
Trademark(s)® Registered
Marca(s) Registrada(s)

Part Number 1Q57 362-01A
TOCOM XX20130810
FL65340

Downloaded from www.Manualslib.com manuals search engine